

## Wednesday - February 5, 2014

Monday 2/10: Pajama Day

Tuesday 2/11: Twin Day

Wednesday 2/12: Class Color Day- Seniors: black, Juniors: red, Sophomores: green, freshmen: yellow, Teachers: orange

Thursday 2/13: Hat Day

Friday 2/14: Wear pink and red

$$\textcircled{12} \quad y = -2(x-3)^2 - 4$$

$$\textcircled{14} \quad y = -(x-4)^2 - 2$$

$$\textcircled{17} \quad y = 3(x-4)^2 - 1$$

$$\frac{3}{5} \quad -\frac{1}{2}$$

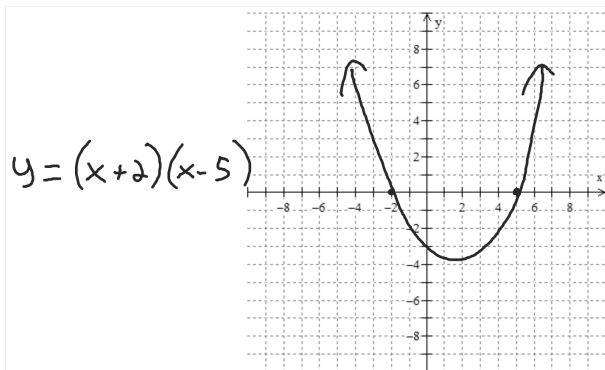
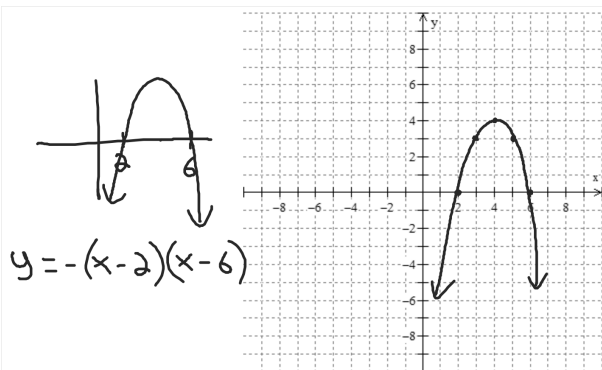
$$\left(x - \frac{3}{5}\right)\left(x + \frac{1}{2}\right)$$

$$(5x-3)(2x+1) = y$$

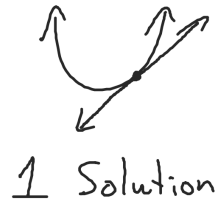
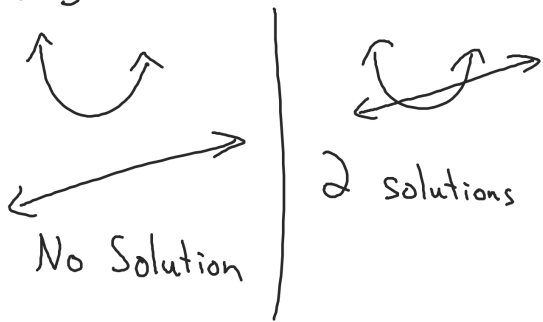
$$5\left(\frac{3}{5}\right) - 3$$

U4B4 - Given a graph of a parabola write the eq<sup>n</sup> in intercept form.

Intercept Form:  $y = a(x-m)(x-n)$



## U4B5 - Solving Quadratic Systems Using Technology



$$\begin{cases} y = -2x^2 + 4x + 3 \\ y = 2x - 1 \end{cases}$$

$$\begin{matrix} (-1, -3) \\ (2, 3) \end{matrix}$$

2nd Trace 5  
 Calc Intersect

$$\begin{cases} y = -x^2 + 3x + 2 \\ y = 3x + 2 \end{cases} \quad (0, 2)$$

$$\begin{aligned} X &= 6.8397E-7 & Y &= 2.0000021 \\ &.00000068.. & Y &= 1.9999998 \end{aligned}$$

$$\begin{cases} x = y - 5 \rightarrow y = x + 5 \\ x + 2x = y - 3 \rightarrow y = x^2 + 2x + 3 \end{cases}$$

$$\begin{matrix} (-2, 3) \\ (1, 6) \end{matrix}$$

## U4B6 - Graphing Systems of Linear Inequalities

Slope Intercept Form

$$y = mx + b$$

↑ neg. sign

< dashed line, shade below

≤ solid line, shade below

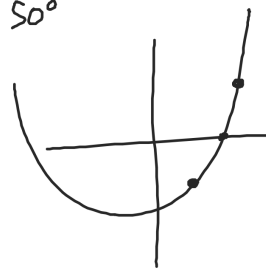
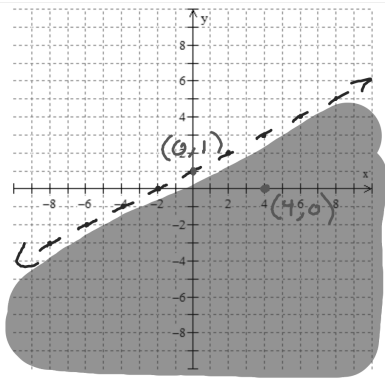
> dashed line, shade above

≥ solid line, shade above

Graph  
 $y < \frac{1}{2}x + 1$

$0 < 2 + 1$   
 $0 < 3$

~~1~~



Graph

$2x - 3y \geq 6$

~~-2x~~

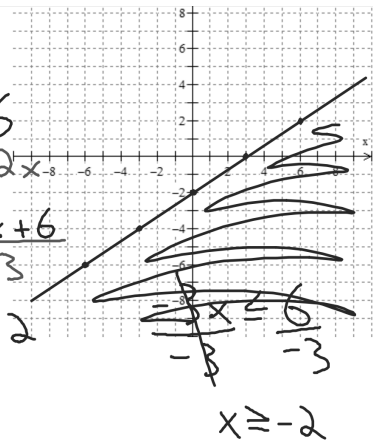
~~-2x~~

~~$y \geq \frac{-2x+6}{-3}$~~

$y \leq \frac{2}{3}x - 2$

~~$x \leq \frac{6}{-3}$~~

$x \geq -2$



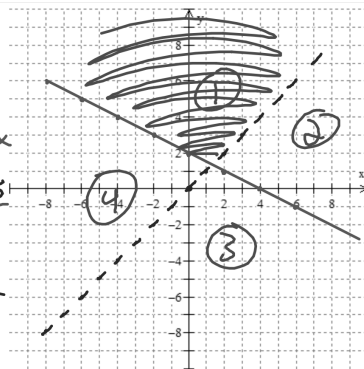
$\begin{cases} y > x \\ 2x + 4y \geq 8 \end{cases}$

~~-2x~~

~~-2x~~

$\frac{4y \geq -2x + 8}{4} \Rightarrow \frac{-2x + 8}{4}$

$y \geq -\frac{1}{2}x + 2$



HW  
 P. 153  
 11-19 odd